

Part C 137 - 316(b) Existing Facility Cooling Water Intakes

[LISTNUM OutlineDefault \l 1 \s I.] **COOLING WATER INTAKE STRUCTURE(S)**

- A. Nothing in this permit authorizes a take of endangered or threatened species under the Endangered Species Act.
- B. Technology and operational measures currently employed at the cooling water intake structure(s) must be operated in a way that minimizes impingement mortality and entrainment to the fullest extent possible.
- C. The permittee shall not alter the location, design, construction or capacity of the intake structure(s) without prior approval of DEP.
- D. Best Technology Available (BTA) Requirements

[FORMTEXT]

To meet BTA requirements to minimize adverse impacts from impingement and entrainment, the permittee shall utilize a closed-cycle recirculating cooling system. To comply with these BTA requirements the permittee shall:

- 1. Operate a closed cycle recirculating system as defined at 40 CFR § 125.92(c).
- 2. Monitor the actual intake flows at a minimum frequency of daily, including measurements of cooling water withdrawals, make-up water and blow down volume or alternatively monitor cycles of concentration at a minimum frequency of daily.
- 3. Submit the results of monitoring in paragraph D.2 above on the Cooling Water Intake Monitoring Supplemental Report (3800-FM-BCW0010) as an attachment to monthly DMRs.

[FORMTEXT]

To meet BTA requirements to minimize adverse impacts from impingement, the permittee shall operate a cooling water intake structure (CWIS) with a maximum design through screen velocity of [FORMTEXT] feet per second (fps).

[FORMTEXT]

To meet BTA requirements to minimize adverse impacts from impingement, the permittee shall operate a cooling water intake structure (CWIS) with a maximum actual through screen velocity of 0.5 feet per second (fps). To comply with these BTA requirements the permittee shall monitor velocity at the screen daily. The intake screen monitoring velocity monitoring results shall be submitted on the Cooling Water Intake Monitoring Supplemental Report (3800-FM-BCW0010) as an attachment to monthly DMRs.

[FORMTEXT]

To meet BTA requirements to minimize adverse impacts from impingement, the permittee will achieve a 12-month impingement mortality standard of all life stages of fish and shellfish of no more than 24 percent mortality, including latent mortality, for all non-fragile species together that are collected or retained in a sieve with maximum opening dimension of 0.56 inches and kept for a holding period of [FORMTEXT]. Biological monitoring must be conducted at a minimum frequency of monthly. Each month all data collected during the previous 12 months shall be used to calculate the 12-month survival percentage. The 12-month impingement mortality performance standard is the total number of fish killed divided by the total number of fish impinged over the

course of the entire 12 months. Results of monitoring and 12-month impingement mortality performance standard calculation shall be submitted as an attachment to the monthly DMRs.

[FORMTEXT]

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- E. If DEP determines the methods to meet impingement and entrainment BTA requirements are not sufficient, the permittee shall employ additional controls to reduce adverse impacts from impingement and entrainment.
- F. The permittee shall, on an annual basis, submit a report describing any modifications to the operation of any unit at the facility that impacts cooling water withdrawals or operation of the cooling water intake structure(s) during a calendar year. If not applicable, the permittee shall submit a statement certifying that no modifications have occurred in lieu of a report. The annual report or statement is due by January 28 of each year.
- G. If the permittee wishes to submit a request for a reduction in permit application requirements as specified in 40 CFR § 125.95(c), the request must be submitted to DEP at least two years and six months before the permit expiration date.
- H. The permittee shall retain data and other records for any information developed pursuant to Section 316(b) of the Clean Water Act for a minimum of ten years.
- I. New Units.

The permittee must submit applicable information in 40 CFR § 122.21(r) at least 180 days prior to the planned commencement of cooling water withdrawals associated with the operation of a new unit (as defined in 40 CFR § 125.92(u)).

[FORMTEXT]

- J. The permittee shall submit results of impingement and/or entrainment monitoring obtained during each calendar year to the DEP Regional Office that issued the permit and to DEP's Bureau of Clean Water by January 28 following the end of the monitoring period.